

Information on “As Shipped” and “As Tested” Display Luminance for ENERGY STAR Qualified Products

Accompanying Document to Draft 1 Version 6.0 ENERGY STAR Display Product Specification

During the current specification revision, EPA is proposing that products of all sizes be tested and shipped at a luminance value greater than or equal to 65% of the maximum luminance, harmonizing with the approach used in the current Version 5.3 and Draft Version 6.0 Televisions specification. The new proposal for Displays Version 6.0 requires ENERGY STAR Partners to report both the “as-shipped” and maximum luminance values.

The current ENERGY STAR qualified product list demonstrated that many of the tested products with a diagonal screen size less than 30” already utilized a luminance of at least 65% of the maximum luminance, even as the VESA test procedure used in the Displays Version 5.1 specification required testing at a prescribed luminance at either 175 cd/m² for screen resolution less than 1.1 MP and 200 cd/m² for screen resolution greater than or equal to 1.1 MP. The current ENERGY STAR qualified product list also demonstrated that many tested products with diagonal screen sizes 30”- 60” utilized a luminance of at least 65% of the maximum luminance. The analysis is based on the 1,147 display models that qualified for the ENERGY STAR Display Specification as of March 2011, which are listed on the ENERGY STAR Qualified Product List.

Figure 1 demonstrates the “as-shipped” and “as-tested” luminance for currently qualified products with diagonal screen sizes less than 30” and Figure 2 demonstrates the “as-shipped” and “as-tested” luminance for currently qualified products with diagonal screen sizes 30”- 60”. Both Figures show the high percent of products that already meet this requirement.

Figure 1: Luminance Distribution for Displays Less than 30” in Diagonal Size

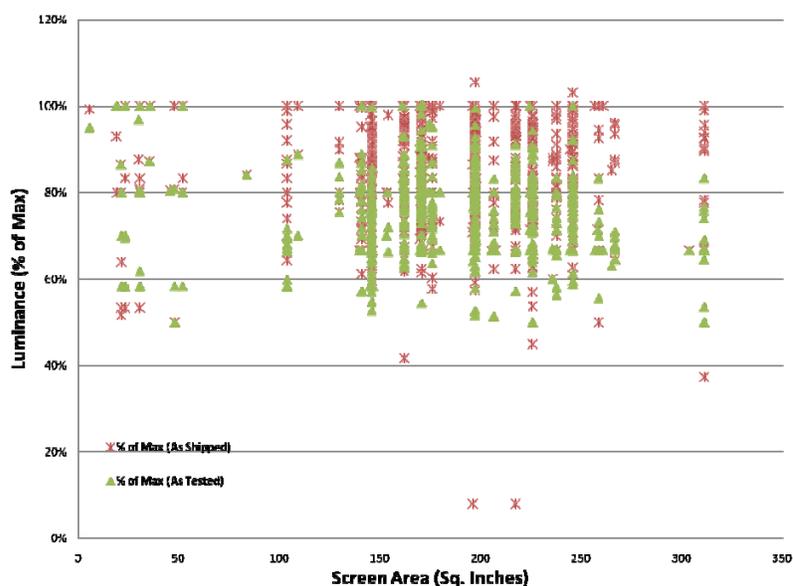


Figure 2: Luminance Distribution for Displays 30-60" in Diagonal Size

